

Sub-Picture Level Pass through

ABSTRACT OF THE DISCLOSURE

5 The invention described herein improves and expedites compressed video data
delivery by providing systems and methods for transcoding and pass through on a sub-picture
level. For example, in MPEG embodiments described herein, transcoding and compressed
video data pass through may occur on a macroblock or slice level. This permits portions of a
picture that need no rate reduction to be passed through without transcoding. The invention
10 may also implement pass through on a picture by picture basis. Accordingly, the invention
may determine transcoding or pass through for each picture or picture subregion. Thus,
systems and methods described herein provide flexible compressed video data transcoding
and pass through, as determined by varying bit rate demands of compressed video data
transmission.